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NO. 1 OF 1 COPIES, SERIES A

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P.O. Box E

FAB/etp

10 August 1945

~~SECRET~~RHTG # 73,028BOX # 603 168

Subject: Contamination of Water in Poplar Creek.

MEMORANDUM TO: Lt. Col. Luvern W. Kehe (Facilities + Service Div)

1. Reference is made to our discussion on 8 August 1945 concerning dumping of waste material at Y-12.

2. It is felt by this office that only three substances are worthy of note as far as contamination of the water of Poplar Creek is concerned.

a. T material should not exceed 1 part per million of water.

b. Fluoride should not exceed 1.5 parts per million of water if the water is to be used for human consumption. However, if the extra dilution which will occur in the Clinch River is considered, it is felt that F can be safely dumped into the water of Poplar Creek up to 5 parts per million.

c. Copper (Cu) is toxic at 10 parts per million to most forms of life; therefore, it is felt Cu should not exceed 5 parts per million of water. Here again the further dilution in the Clinch River has been considered.

3. All other ions and compounds are either non-toxic or would not reach intolerable levels in the amounts which are normally dumped at Y-12.

Distribution: Cys 1 & 2 - Addressee  
Cys 3 & 4 - Classified Files FRED A. BRYAN  
Cy 5 - Medical Section w/d Captain, Medical Corps

DEPARTMENT OF ENERGY DECLASSIFICATION RECORD	
1st Review - Date: <u>12-15-96</u>	Determination (Circle Number 1-7)
Authority: <input type="checkbox"/> ADC <input checked="" type="checkbox"/> ADD	1. Classification Retained
Name: <u>W. J. Kehe</u>	2. Classification Changed To:
2nd Review - Date: <u>12-16-96</u>	3. Contains No DOE Classified Information
Authority: <u>ADD</u>	4. Coordinate With:
Name: <u>W. J. Kehe</u>	5. Classification Canceled
	6. Classified Information Bracketed
	7. Other (Specify):

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Contam. of Water Supply.